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Cifer & 27 47

April 22, 1947

ACUTE TOXICITY TESTS WITH VARIOUS ISOCYARATES

Acute toxicity tests were carried out on the following isocyanates

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2,4 Tolueno Di-isocyanato Bisulfito Adduct Tolueno 2,4 Di-isocyanato 984 puro (distillod) Octadocyl Isocyanato Tolueno 2,4 Di-isocyanato (756 puro (tochnical)

The results of our feeding tests with jute are summarised below:

	No. Rote	Dogo	lo. Trustacata	Dee the
-	1	l grem/kilo	1	0
I	1	l gram/kilo 3.5 gram/kilo 5.0 gram/kilo,	1	0

All three rate appeared most unconfortable within 20 minutes after treatment. Prestration was evident and the breathing was labored. The rat receiving the highest does become week in the hind legs and quite example. It died about four hours after treatment; the shief finding at autopey being an intense symmets of all the organs. The other two rate survived. The one receiving the 1 gram per kilo does gained weight satisfactorily during the ten day; after treatment. The one receiving the 3.5 grams per kilo does lost weight after treatment and took a week to regain the weight lost.

	To Bets	Dose	No. Treatments	<u>Deaths</u>
	1	l gree/kilo 5 gree/kilo 7.5 gree/kilo	1	0
T	1	5 grem/kilo	1	0
J <u>i</u>	1	7.5 grem/k110	1	1 (Died during

The two rats in the lower doses lost considerable wright as a result of treatment. The rat receiving the 1 gram per kilo dose did not regain the weight lost until 7 days after treatment and the rat receiving 5 grams per kilo had not regained the weight lost by the 12th day after treatment, at which point the experiment was terminated. The rat that died showed some pulmonary edema and had hemorrhages in the stomach and ducdenum.

	So. Rote	2000	to. Tree tments	Des the	
TIT.	1 1 1	1 gran/kilo 5 gran/kilo 7.5 gran/kilo	1 1 1	0	JHF

As with \mathcal{I} and \mathcal{I} , these rate appeared unconfortable within a half hour after treatment. The rate on the lower decage gained weight slowly after treatment and the one on the high dose made a fairly good gain in weight.

	Bo. Rete	Doee	No. Tree tments	<u>Des the</u>
N	1 1 1	1 grem/kilo 5 grem/kilo 7 5 grem/kilo	1 1	0 0 0

Treetment produced disconfort in the rate within helf an hour. All these survived The rat receiving I gram per kilo lost weight slightly after treatment and remained stationary in weight during the next 12 days. The rate receiving the higher does lost considerable weight as a result of treatment and did not regain the weight lost during the 12 days following treatment.

On the basis of our tests, these compounds would be listed in the following order according to decreasing toxicity, although the difference is not atriking: \mathcal{I} , \mathcal{I} , ond \mathcal{I} . But appear able to survive a surprisingly high dose of these isosymmetes.

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AJF:dph

CERTIFICATE OF AUTHENTICITY

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